Frederick B Davies

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	He ii Lyα Transmission Spikes and Absorption Troughs in Eight High-resolution Spectra Probing the End of He ii Reionization. Astrophysical Journal, 2022, 927, 175.	1.6	0
2	IGM damping wing constraints on reionization from covariance reconstruction of two <i>z</i> ≳ 7 QSOs. Monthly Notices of the Royal Astronomical Society, 2022, 512, 5390-5403.	1.6	30
3	Hydrogen reionization ends by <i>z</i> = 5.3: Lyman-α optical depth measured by the XQR-30 sample. Monthly Notices of the Royal Astronomical Society, 2022, 514, 55-76.	1.6	82
4	Improved treatments of the ionizing photon mean free path in seminumerical simulations of reionization. Monthly Notices of the Royal Astronomical Society, 2022, 514, 1302-1314.	1.6	6
5	Staring at the Shadows of Archaic Galaxies: Damped Lyα and Metal Absorbers Toward a Young z â^1⁄4 6 Weak-line Quasar. Astronomical Journal, 2022, 163, 251.	1.9	6
6	Long Dark Gaps in the Lyl² Forest at z < 6: Evidence of Ultra-late Reionization from XQR-30 Spectra. Astrophysical Journal, 2022, 932, 76.	1.6	28
7	Measuring the thermal and ionization state of the low- <i>z</i> IGM using likelihood free inference. Monthly Notices of the Royal Astronomical Society, 2022, 515, 2188-2207.	1.6	2
8	A Luminous Quasar at Redshift 7.642. Astrophysical Journal Letters, 2021, 907, L1.	3.0	237
9	Revealing the Accretion Physics of Supermassive Black Holes at Redshift z â^1⁄4 7 with Chandra and Infrared Observations. Astrophysical Journal, 2021, 908, 53.	1.6	35
10	A comparison of quasar emission reconstruction techniques for <i>z</i> ≥ 5.0 Lyman α and Lyman Î transmission. Monthly Notices of the Royal Astronomical Society, 2021, 503, 2077-2096.	² 1.6	21
11	The Discovery of a Highly Accreting, Radio-loud Quasar at z = 6.82. Astrophysical Journal, 2021, 909, 80.	1.6	55
12	New Evidence for Extended He ii Reionization at z ≳ 3.5 from He ii Lyman Alpha and Beta Transmission Spikes*. Astrophysical Journal, 2021, 912, 38.	1.6	12
13	The first measurement of the quasar lifetime distribution. Monthly Notices of the Royal Astronomical Society, 2021, 505, 649-662.	1.6	23
14	Probing reionization and early cosmic enrichment with the Mg <scp>ii</scp> forest. Monthly Notices of the Royal Astronomical Society, 2021, 506, 2963-2984.	1.6	6
15	Detecting and Characterizing Young Quasars. II. Four Quasars at z â^1⁄4 6 with Lifetimes < 10 ⁴ Yr. Astrophysical Journal, 2021, 917, 38.	1.6	27
16	The Predicament of Absorption-dominated Reionization: Increased Demands on Ionizing Sources. Astrophysical Journal Letters, 2021, 918, L35.	3.0	20
17	Improving IGM temperature constraints using wavelet analysis on high-redshift quasars. Monthly Notices of the Royal Astronomical Society, 2021, 508, 5493-5513.	1.6	5
18	Estimating the Effective Lifetime of the z â ⁻¹ ⁄4 6 Quasar Population from the Composite Proximity Zone Profile. Astrophysical Journal, 2021, 921, 88.	1.6	16

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19	Chasing the Tail of Cosmic Reionization with Dark Gap Statistics in the Lyα Forest over 5 < z < 6. Astrophysical Journal, 2021, 923, 223.	1.6	39
20	Constraints on the End of Reionization from the Density Fields Surrounding Two Highly Opaque Quasar Sightlines. Astrophysical Journal, 2021, 923, 87.	1.6	17
21	Probing Early Supermassive Black Hole Growth and Quasar Evolution with Near-infrared Spectroscopy of 37 Reionization-era Quasars at 6.3 < z ≤7.64. Astrophysical Journal, 2021, 923, 262.	1.6	76
22	lonization bias and the ghost proximity effect near <i>z</i> ≳ 6 quasars in the shadow of proximate absorption systems. Monthly Notices of the Royal Astronomical Society, 2020, 494, 2937-2947.	1.6	12
23	Reionization history constraints from neural network based predictions of high-redshift quasar continua. Monthly Notices of the Royal Astronomical Society, 2020, 493, 4256-4275.	1.6	29
24	PÅniuÄâ€~ena: A Luminous zÂ=Â7.5 Quasar Hosting a 1.5 Billion Solar Mass Black Hole. Astrophysical Journal Letters, 2020, 897, L14.	3.0	202
25	A Significantly Neutral Intergalactic Medium Around the Luminous zÂ=Â7 Quasar J0252–0503. Astrophysical Journal, 2020, 896, 23.	1.6	97
26	Time-dependent behaviour of quasar proximity zones at <i>z</i> Ââ^¼Â6. Monthly Notices of the Royal Astronomical Society, 2020, 493, 1330-1343.	1.6	36
27	Pypelt: The Python Spectroscopic Data Reduction Pipeline. Journal of Open Source Software, 2020, 5, 2308.	2.0	128
28	No Redshift Evolution in the Broad-line-region Metallicity up to zÂ=Â7.54: Deep Near-infrared Spectroscopy of ULAS J1342+0928. Astrophysical Journal, 2020, 898, 105.	1.6	38
29	Detecting and Characterizing Young Quasars. I. Systemic Redshifts and Proximity Zone Measurements. Astrophysical Journal, 2020, 900, 37.	1.6	56
30	Measurements of the zÂâ^1⁄4Â6 Intergalactic Medium Optical Depth and Transmission Spikes Using a New zÂ>Â6.3 Quasar Sample. Astrophysical Journal, 2020, 904, 26.	1.6	71
31	The X-SHOOTER/ALMA Sample of Quasars in the Epoch of Reionization. I. NIR Spectral Modeling, Iron Enrichment, and Broad Emission Line Properties. Astrophysical Journal, 2020, 905, 51.	1.6	66
32	Constraining the Gravitational Lensing of zÂ≳Â6 Quasars from Their Proximity Zones. Astrophysical Journal Letters, 2020, 904, L32.	3.0	12
33	Exploring Reionization-era Quasars. III. Discovery of 16 Quasars at 6.4Â≲ÂzÂ≲Â6.9 with DESI Legacy Imagir Surveys and the UKIRT Hemisphere Survey and Quasar Luminosity Function at zÂâ^¼Â6.7. Astrophysical Journal, 2019, 884, 30.	וg 1.6	114
34	A Metal-poor Damped LyÎ \pm System at Redshift 6.4. Astrophysical Journal, 2019, 885, 59.	1.6	38
35	Anomaly in the Opacity of the Post-reionization Intergalactic Medium in the Ly $\hat{l}\pm$ and Ly \hat{l}^2 Forest. Astrophysical Journal, 2019, 881, 23.	1.6	25
36	Heating of the Intergalactic Medium by Hydrogen Reionization. Astrophysical Journal, 2019, 874, 154.	1.6	47

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37	The Evolution of the He ii-ionizing Background at Redshifts 2.3Â<ÂzÂ<Â3.8 Inferred from a Statistical Sample of 24 HST/COS He ii Lyα Absorption Spectra*. Astrophysical Journal, 2019, 875, 111.	1.6	31
38	Inhomogeneous reionization models in cosmological hydrodynamical simulations. Monthly Notices of the Royal Astronomical Society, 2019, 486, 4075-4097.	1.6	34
39	The REQUIEM Survey. I. A Search for Extended Lyα Nebular Emission Around 31 zÂ>Â5.7 Quasars. Astrophysical Journal, 2019, 887, 196.	1.6	68
40	Evidence for Low Radiative Efficiency or Highly Obscured Growth of zÂ>Â7 Quasars. Astrophysical Journal Letters, 2019, 884, L19.	3.0	52
41	Large fluctuations in the high-redshift metagalactic ionizing background. Monthly Notices of the Royal Astronomical Society, 2018, 473, 560-575.	1.6	99
42	The Structure and Dynamics of the Subparsec Jet in M87 Based on 50 VLBA Observations over 17 Years at 43 GHz. Astrophysical Journal, 2018, 855, 128.	1.6	239
43	An 800-million-solar-mass black hole in a significantly neutral Universe at a redshift of 7.5. Nature, 2018, 553, 473-476.	13.7	726
44	The Discovery of a Luminous Broad Absorption Line Quasar at a Redshift of 7.02. Astrophysical Journal Letters, 2018, 869, L9.	3.0	82
45	First Spectroscopic Study of a Young Quasar. Astrophysical Journal, 2018, 867, 30.	1.6	49
46	Modeling the He ii Transverse Proximity Effect: Constraints on Quasar Lifetime and Obscuration. Astrophysical Journal, 2018, 861, 122.	1.6	23
47	The Opacity of the Intergalactic Medium Measured along Quasar Sightlines at zÂâ^1⁄4Â6. Astrophysical Journal, 2018, 864, 53.	1.6	104
48	Determining the Nature of Late Gunn–Peterson Troughs with Galaxy Surveys. Astrophysical Journal, 2018, 860, 155.	1.6	33
49	Quantitative Constraints on the Reionization History from the IGM Damping Wing Signature in Two Quasars at zÂ>Â7. Astrophysical Journal, 2018, 864, 142.	1.6	197
50	Predicting Quasar Continua near Lyα with Principal Component Analysis. Astrophysical Journal, 2018, 864, 143.	1.6	49
51	A New Method to Measure the Post-reionization Ionizing Background from the Joint Distribution of Lyα and Lyβ Forest Transmission ^{â^—} . Astrophysical Journal, 2018, 855, 106.	1.6	42
52	Evidence for Large-scale Fluctuations in the Metagalactic Ionizing Background Near Redshift Six. Astrophysical Journal, 2018, 863, 92.	1.6	65
53	Implications of zÂâ^¼Â6 Quasar Proximity Zones for the Epoch of Reionization and Quasar Lifetimes. Astrophysical Journal, 2017, 840, 24.	1.6	122
54	Small-scale Intensity Mapping: Extended Halos as a Probe of the Ionizing Escape Fraction and Faint Galaxy Populations during Reionization. Astrophysical Journal, 2017, 846, 11.	1.6	19

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#	Article	IF	CITATIONS
55	A self-consistent 3D model of fluctuations in the helium-ionizing background. Monthly Notices of the Royal Astronomical Society, 2017, 465, 2886-2894.	1.6	22
56	Quasar ionization front Lyα emission in an inhomogeneous intergalactic medium. Monthly Notices of the Royal Astronomical Society, 2016, 457, 3006-3023.	1.6	32
57	Large fluctuations in the hydrogen-ionizing background and mean free path following the epoch of reionization. Monthly Notices of the Royal Astronomical Society, 2016, 460, 1328-1339.	1.6	92
58	The effect of fluctuations on the helium-ionizing background. Monthly Notices of the Royal Astronomical Society, 2014, 437, 1141-1154.	1.6	23